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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,990	01/15/2002	Satoshi Arakawa	216449US-8	2720
	22850 7590 02/26/2003 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314		EXAMINER	
1940 DUKE ST			FLORES RUIZ, DELMA R	
	•		ART UNIT	PAPER NUMBER
			2828	

DATE MAILED: 02/26/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		y
	Application No.	Applicant(s)
	10/044,990	ARAKAWA ET AL.
Office Action Summary	Examiner	Art Unit
	Delma R. Flores Ruiz	2828
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fi , cause the application to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this communication. NED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 15.	<u>lanuary 2002</u> .	
2a) This action is FINAL . 2b) Th	is action is non-final.	
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims		
4) Claim(s) 1-16 is/are pending in the application	1.	
4a) Of the above claim(s) is/are withdraw	wn from consideration.	
5) Claim(s) is/are allowed.		D A
6) Claim(s) is/are rejected.		Paul &
7) Claim(s) is/are objected to.		PAUL IP
8)⊠ Claim(s) <u>1-16</u> are subject to restriction and/or of Application Papers	election requirement.	SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800
9) The specification is objected to by the Examine	r	
10) The drawing(s) filed on is/are: a) accept		xaminer
Applicant may not request that any objection to the		
11) The proposed drawing correction filed on		
If approved, corrected drawings are required in re		
12) The oath or declaration is objected to by the Ex	aminer.	
Priority under 35 U.S.C. §§ 119 and 120		•
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 11	9(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority document	s have been received.	
2. Certified copies of the priority document	s have been received in Applic	cation No
Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C. § 11	9(e) (to a provisional application).
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domest	, ,	
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 11, drawn to a monolithic semiconductor optical device, classified in class 372, subclass 50.
- II. Claims 12 -16, drawn to method of fabricating monolithic semiconductor optical device, classified in class 438, subclass 22⁺.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case that the product as claimed can be made by another and materially different process e.g. The method comprises the steps of depositing an etch stop layer onto a semiconductor substrate; depositing an optical component layer onto the etch stop layer; coating the entire surface of the optical component layer with a photoresist material; applying a photoresist mask to the photoresist material on the

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optical component layer; selectively etching away the optical component layer to form at least one optical column; forming a pedestal for each of the optical columns by electively etching away the etch stop layer; and finally polishing each of the optical columns, thereby forming monolithic optical components. The method may optionally include the step of removing the photoresist mask from each of the optical columns prior to polishing the optical columns, as well as the step of depositing an antireflectivity coating onto each of the optical components.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group I, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (703) 308-6238. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3431.

Delma R. Flores Ruiz

Examiner Art Unit 2828

DRFR/PI

February 24, 2003

Paul Ip

Supervisor Patent Examiner

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